10/539338 PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
T 44328WO/AW/hs	FOR FURTHER A	ACTION See Not Prelimina	ification of Transmittal of International y Examination Report (Form PCT/IPEA/416)				
International application No.		ate (day/month/year)	Priority date (day/month/year)				
PCT/DE2003/004217	19 December 2	003 (19.12.2003)	23 December 2002 (23.12.2002)				
International Patent Classification (IPC) or na C12Q 1/68	ntional classification a	nd IPC					
Applicant	INDIVUM	ED GmbH					
1. This international preliminary evening							
and is transmitted to the applicant acc	nation report has been cording to Article 36.	prepared by this Inter	national Preliminary Examining Authority				
2. This REPORT consists of a total of _	5sheets	including this cover	sheet.				
This report is also accompanie	d by ANNEXES, i.e.,	sheets of the descript	ion, claims and/or drawings which have been ations made before this Authority (see Rule				
These annexes consist of a tota	l of s	sheets.	,				
3. This report contains indications relating	ng to the following iter	ns:					
I Basis of the report	I Basis of the report						
II Priority							
III Non-establishment of	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Lack of unity of invention						
V Reasoned statement un citations and explanation	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
VI Certain documents cite	VI Certain documents cited						
VII Certain defects in the in	VII Certain defects in the international application						
VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of	AL:				
25 June 2004 (25.06.2004	i i	Date of completion of 21 A	april 2005 (21.04.2005)				
Name and mailing address of the IPEA/EP	T A	Authorized officer					
acsimile No.	Т	elephone No.					

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/004217

I. Basis of the report	FC1/DE2003/00421/
1. With regard to the elements of the international application:*	
the international application as originally filed	
the description:	
pages 1-14	, as originally filed
F-800	filed with the damen d
, filed w	ith the letter of
the claims:	
pages	
pages , as	, as originally filed
Pages	filed with the demand
pages 1-15 filed w	ith the letter of16 March 2005 (16.03.2005)
the drawings:	10 March 2003 (10.03.2003)
pages	, as originally filed
	filed with it is
pages, filed wi	th the letter of
the sequence listing part of the description:	·
pages 1/1 pages	, as originally filed
	61
pages, filed wi	th the letter of
 With regard to the language, all the elements marked above were available of the international application was filed, unless otherwise indicated under this in the international application of furnished to this Authority in the following the language of a translation furnished for the purposes of international the language of publication of the international application (under Rule the language of the translation furnished for the purposes of internation 55.3). With regard to any nucleotide and/or amino acid sequence disclosed preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence linternational application as filed has been furnished. The statement that the information recorded in computer readable for been furnished. 	anguage which is: search (under Rule 23.1(b)). 48.3(b)). onal preliminary examination (under Rule 55.2 and/ in the international application, the international rm.
4 The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/fig	,
This report has been established as if (some of) the amendments had not beyond the disclosure as filed, as indicated in the Supplemental Box (Rule	5 /0.2(C)).**
* Replacement sheets which have been furnished to the receiving Office in responsing this report as "originally filed" and are not annexed to this report single 470.17).	ce mey at not contain amendments (Rule 70.16
* Any replacement sheet containing such amendments must be referred to under it	em 1 and annexed to this report.
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DE 03/04217

 Reasoned statement under Article 3 citations and explanations supporting 	55(2) with regard to novelty, ng such statement	inventive step or industrial app	licability;
Statement			
Novelty (N)	Claims	1-15	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-15	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: US-A-5 747 265 (RUGG ARTHUR E et al.), 5 May 1998 (1998-05-05)

D2: US-A-5 753 444 (COOMBS JANA et al.), 19 May 1998 (1998-05-19)

D3: KONONEN et al.: "Tissue microarrays for high-throughput molecular profiling of tumour specimens", NATURE MEDICINE, NATURE PUBLISHING, CO, US, Vol. 4, No. 7, July 1998 (1998-07), pages 844-847, XP002160224, ISSN 1078-8956

Lack of inventive step (PCT Article 33(3))

The application fails to meet the requirements of PCT Article 33(1) because the subject matter of claims 1 to 15 does not involve an inventive step (PCT Article 33(3)).

The amended claim 1 relates to a method for assembling a collection of isolated human tissue samples. Document D3, which is considered to be the prior art closest to the subject matter of claim 1, also discloses (the references in parentheses are to D3) a method for assembling a collection of isolated human tissue samples (see the abstract). D3 also mentions the advantages of standardised conditions: "Tissues fixed in a uniform manner provide a substantial advantage compared with variably fixed archival tissues..." (page 844, right-hand column). The subject matter of claim 1 differs from the known method in that the period (between isolation and preservation) is defined as less than 25 minutes with a maximum deviation of 10%. The technical effect can

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be seen in the statistical verification of experimental results (page 2, lines 28 to 33). The problem addressed by the present invention can thus be seen as that of providing a method for assembling a statistically significant collection of samples.

The solution (preservation within a defined period after isolation) is not inventive for the following reasons:

- It is already known from D1 (column 1, lines 54 to 56) that the period between isolation and preservation is important ("a ... short half life makes the sampling time critical"). Hence both the problem and its solution (standardisation of the period) were already generally known.
- Claim 1 defines the period as 25 minutes with a maximum deviation of 10%. Figure 1 in the present application shows a change in the protein composition within a matter of minutes. In view of the changes shown in figure 1 (for example, between 15 and 20 minutes, or between 20 and 30 minutes), it is clear that a 10% deviation does not result in a statistically significant collection of samples. Claim 1 therefore fails to solve the problem.

Other independent claims

The same line of reasoning applies similarly to independent claim 15. The subject matter of independent claim 15 therefore does not involve an inventive step (PCT Article 33(3)).

Dependent claims

Dependent claims 2 to 14 do not contain any features that meet the PCT requirements in respect of novelty and inventive step when combined with the features of any of the back-referenced claims (see documents D1 to D3 and the passages cited in the search report).